

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061025 A1

(51) International Patent Classification⁷: **A61M 1/00**

(21) International Application Number:
PCT/CH2003/000841

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US):
MEDELA HOLDING AG [CH/CH]; Lättichstrasse
4b, CH-6340 Baar (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LARSSON, Michael**
[CH/CH]; Guggiweg 7, CH-6300 Zug (CH).

(74) Agent: **CLERC, Natalia**; Isler & Pedrazzini AG, Got-
thardstrasse 53, Postfach 6940, CH-8023 Zürich (CH).

(81) Designated States (national): AE, AG, AL, AM, AT (util-
ity model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE
(utility model), DE, DK (utility model), DK, DM, DZ, EC,
EE (utility model), EE, EG, ES, FI (utility model), FI, GB,
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL,
PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.

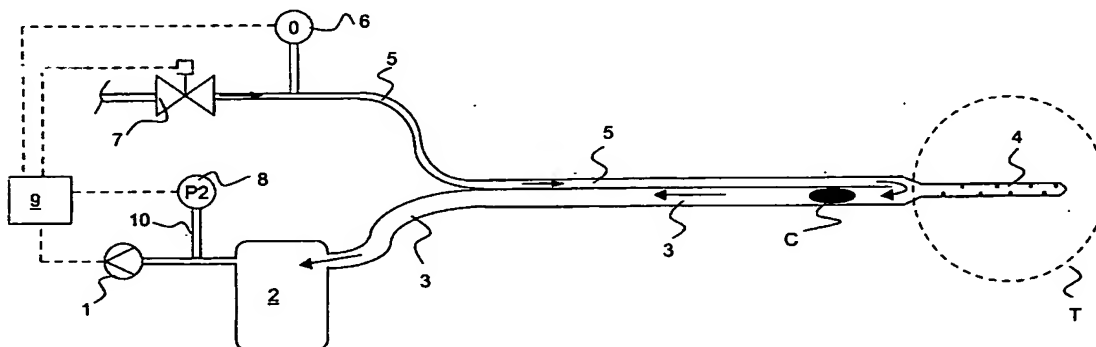
(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: DRAINAGE APPARATUS AND METHOD



(57) Abstract: An apparatus for removing body fluids from a body cavity by suction, such as a thorax, gastric or any other human body cavity or a wound, comprises means (9) to increase the pressure difference between a pressure in a drainage lumen (3) and a pressure in the atmosphere when an auxiliary lumen (5) is open. The apparatus enables removal of clots or other plugs of the catheter and drainage tube in an efficient and not patient disturbing way.